

ABSTRACT OF THE DISCLOSURE

The description relates to a rectenna solar-battery hybrid panels that not only receive electric power transmitted by microwaves after the electric energy has been generated from sunlight, but also gain sunlight energy on the open faces of the panels, and to hybrid solar photovoltaic generation systems. In the rectenna solar-battery hybrid panel, a plurality of solar battery cells for receiving sunlight and converting the sunlight into electricity and a plurality of microwave receiving antenna elements for receiving microwaves transmitted through space are provided. dc electric power is obtained from microwave power, having been received by the microwave receiving antenna elements, being rectified by a rectifying circuit. Stable electric power can be obtained from the output of the solar battery cells and the rectifying circuit.